IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1.(Previously Presented) An illumination system, comprising a radiation source and a fluorescent material comprising at least one phosphor capable of absorbing a part of light emitted by the radiation source and emitting visible light of wavelength different from that of the absorbed light; wherein said at least one phosphor is an oxido-nitrido-silicate of general formula

$EA_{2-z}Si_{5-a}B_aN_{8-a}O_a:Ln_z$, wherein $0 < z \leq 1$ and $0 < a < 5$,

comprising at least one element EA selected from the group consisting of Mg, Ca, Ba and Zn and at least one element B selected from the group consisting of Ga and In, and being activated by a lanthanide selected from the group consisting of cerium, europium, terbium, praseodymium and mixtures thereof.

2.(Previously Presented) The illumination system according to claim 1,

wherein the fluorescent material comprises a red phosphor having a general formula of $EA_{2-z}Si_{5-a}B_aN_{8-a}O_a:Ln_z$, wherein $0<z\leq 1$ and $0 < a < 5$ and a green or yellow phosphor.

3.(Previously Presented) The illumination system according to claim 1,

wherein a green or yellow phosphor is selected from the group of

MS:Eu,Ce,Cu comprising at least one element selected from the group M = Mg, Ca, Sr, and Zn;

MN_2S_4:Eu,Ce comprising of at least one element selected from the group M = Mg, Ca, Sr, and Zn at least one element selected from the group N = Al, Ga, In, Y, La, Gd,

$(Re_{1-r}Sm_r)_3(Al_{1-s}Gas)_5O_{12}$:Ce, where $0 \leq r < 1$ and $0 \leq s \leq 1$ and Re selected from Y, Lu, Sc, La and Gd

and $(Ba_{1-x-y-z}Sr_xCa_y)_2SiO_4:Eu_z$, wherein $0\leq x\leq 1$, $0\leq \leq 1$ and $0<z<1$.

4.(Withdrawn) An illumination system according to claim 1, wherein the radiation source is a UV- or blue-emitting LED.

5.(Previously Presented) The illumination system according to claim 1, wherein said radiation source comprises a nitride compound semiconductor represented by the general formula $In_iGa_jAl_kN$, where $0 \leq i \leq 1$, $0 \leq j \leq 1$, $0 \leq k \leq 1$ and $i+j+k=1$.

6.(Withdrawn) An illumination system according to claim 1, wherein the system is a lamp.

7.(Previously Presented) The illumination system according to claim 1, wherein the system is a traffic sign.

8.(Previously Presented) A phosphor capable of absorbing a part of light emitted by the radiation source and emitting visible light of wavelength different from that of the absorbed light;

wherein said at least one phosphor is an oxido-nitrido-silicate of general formula

$EA_{2-z}Si_{5-a}B_aN_{8-a}O_a:Ln_z$, wherein $0 < z \leq 1$ and $0 < a < 5$

comprising at least one element EA selected from the group consisting of Mg, Ca, Ba and Zn and at least one element B selected from the group consisting of Ga and In, and being activated with a lanthanide selected from the group consisting of cerium, europium, terbium and mixtures thereof.

9. (Previously Presented) The phosphor according to claim 8, of general formula $(Sr_{1-x}EA_x)_{2-z}Si_{5-a}(Al_{1-b}B_b)_aN_{8-a}O_a:(Eu,Ce)_z$, wherein $0 \leq x \leq 1$ and $0 \leq b \leq 1$.

10. (Previously Presented) The phosphor according to claim 8, of general formula

$(Sr_{1-x-y}Ba_xCa_y)_{2-z}Si_{5-a}Al_aN_{8-a}O_a:(Eu,Ce)_z$ wherein $0 \leq x \leq 1$ and $0 \leq y \leq 1$.

11. (Previously Presented) A phosphor capable of absorbing a part of light emitted by the radiation source and emitting light of

wavelength different from that of the absorbed light; wherein said at least one phosphor is of general formula

$Sr_{1.96}Si_3Al_2N_6O_2:Eu_{0.04}$.

12. (Previously Presented) The phosphor according to claim 8, wherein silicon is substituted by germanium.

13. (Previously Presented) An illumination system comprising a radiation source and a fluorescent material comprising at least one phosphor capable of absorbing a part of light emitted by the radiation source and emitting visible light of wavelength different from that of the absorbed light; wherein said at least one phosphor is an oxido-nitrido-silicate of general formula

$EA_{2-z}Si_{5-a}B_aN_{8-a}O_a:Ln_z$, wherein $0 < z \leq 1$ and $0 < a < 5$

comprising at least one element EA selected from a group of Mg and Zn and at least one element B selected from a group of Ga and In, and being activated by a lanthanide selected from a group of cerium, terbium, praseodymium and mixtures thereof.

Claim 14 (Canceled)

15. (Previously Presented) The illumination system of claim 13, wherein the fluorescent material comprises a red phosphor having a general formula of $EA_{2-z}Si_{5-a}B_aN_{8-a}O_a:Ln_z$, wherein $0<z\leq 1$ and $0 < a < 5$ and a green or yellow phosphor.

16. (Previously Presented) The illumination system of claim 15, wherein the green or yellow phosphor is selected from the group of

MS:Eu,Ce,Cu comprising at least one element selected from a group M = Mg, Ca, Sr, and Zn;

MN_2S_4:Eu,Ce comprising of at least one element selected from a group M = Mg, Ca, Sr, and Zn at least one element selected from a group N = Al, Ga, In, Y, La, Gd,

$(Re_{1-r}Sm_r)_3(Al_{1-s}Gas)_5O_{12}$:Ce, where $0 \leq r < 1$ and $0 \leq s \leq 1$ and Re selected from Y, Lu, Sc, La and Gd,

and $(Ba_{1-x-y-z}Sr_xCa_y)_2SiO_4:Eu_z$, wherein $0\leq x\leq 1$, $0\leq \leq 1$ and $0<z<1$.

17. (Previously Presented) The illumination system of claim

13, wherein the radiation source comprises a nitride compound semiconductor represented by the general formula $In_iGa_jAl_kN$, where $0 \leq i \leq 1$, $0 \leq j \leq 1$, $0 \leq k \leq 1$ and $i+j+k=1$.

18. (Previously Presented) The illumination system of claim 13, wherein the system is a traffic sign.